

## NOTES AND EXTRACTS.

Mr. W. G. Blake, of Spartanburg, S. C., furnishes the following report of observations taken by him on the thermal belt in Polk county, N. C.:

I erected three stations, No. 1 in the valley, No. 2 on the belt, and No. 3 on the mountain above the belt. Each station contained a maximum, minimum, and wet-bulb thermometer, the instruments being placed four feet above the grass and subjected as nearly as possible to the same conditions. During the day the instruments were protected from the sun by being covered with large white boxes, well ventilated. On Wednesday evening, August 17th, there came up a heavy thunder-storm, lasting about one-half hour. During the night the sky was partly clouded, the wind and clouds coming from the southwest. On Thursday morning the minimum thermometer read:

At station No. 1, 66°.3; at station No. 2, 66°.3.

I was not able to obtain a reading at station No. 3. On same day at 12 m., the thermometer read:

At station No. 1, dry bulb, 76°.0; wet bulb, 74°.0. At station No. 2, dry bulb, 74°.5; wet bulb, 72°.0.

It was raining during this observation and continued showery all day. On Friday night, August 19th, simultaneous observations were made at stations No. 1 and No. 2, every half hour from 9 p. m. until 12 p. m. The readings are:

Station No. 1.			Station No. 2.		
Time.	Dry bulb.	Wet bulb.	Time.	Dry bulb.	Wet bulb.
	°	°		°	°
9.00 p. m. ....	71.3	70.1	9.00 p. m. ....	70.3	69.0
9.30 p. m. ....	69.5	69.1	9.30 p. m. ....	68.3	67.3
10.00 p. m. ....	69.0	68.9	10.00 p. m. ....	69.0	68.0
10.30 p. m. ....	70.0	69.5	10.30 p. m. ....	70.3	68.9
11.00 p. m. ....	70.0	69.6	11.00 p. m. ....	70.3	69.0
11.30 p. m. ....	70.4	70.1	11.30 p. m. ....	70.8	69.2
12.00 p. m. ....	70.0	69.9	12.00 p. m. ....	71.0	69.0

At both stations the minimum thermometer on Saturday morning read 68°.4. The sky was alternately clear and cloudy while these observations were taken.

These results show very little difference between the temperature and humidity in the valley and in the thermal belt, though I am sure had the weather been clear and dry, a much greater difference would have been observed.

A Mr. Wilcox, an intelligent gentleman, living at the foot of the mountain, states that he has noted in the winter a difference of 20° in temperature between the belt and the valley. Indeed, it is now very easy to note the advanced stage of vegetation upon the belt; for instance, the fruit of the passion flower was ripe, even rotting, high up on the sides of the mountain, while in the valley and even here at Spartanburg, thirty miles further south, the plant is only in bloom, or has small and green fruit.

With reference to chart number v (meteorological and health chart for Ohio, August, 1887), accompanying this issue of the REVIEW, the following communication from its author is given:

MOUNT VERNON, OHIO, October 7, 1887.

General A. W. GREELY,

Chief Signal Officer, U. S. A.:

DEAR SIR: Some weeks ago I requested of you, for special purposes, the following publications of your office: Professional Papers of the Signal Service, XIII, XVII, and XVIII; the best form of electrometer, collector, batteries, etc., according to results of late investigations under your supervision.

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It may be of some slight interest to you to know the line of my work, so I enclose, herewith, a chart such as I am making for each month, the same being furnished the State Board of Health, to become a part of its annual report. I wish to complete this chart in the course of time, by adding curves for *atmospheric electricity* and *ozone*. Therefore the records and work of your office will become of great value to me, if they are available.

I have the honor to be, sir, your obedient servant,

E. R. EGGLESTON, M. D.